IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the applications:

Listing of Claims:

- 1. (Cancelled)
- 2. (Previously presented) An electromagnetic radiation absorber for absorbing electromagnetic radiation in the wavelength range λ_{min} to λ_{max} within the electromagnetic wavelength range comprising a conductor layer in contact with a dielectric layer wherein the conductor layer includes a plurality of slits in a grating arrangement each slit having at least one dimension that is less than λ_{min} , wherein the thickness of the absorber is less than $\lambda_{min}/4n$, where n is the refractive index of the dielectric.
- (Currently amended) An e/m electromagnetic radiation absorber as claimed in claim 2
 wherein the thickness of the absorber is less than λ_{min}/10.
- (Cancelled).
- (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the slit structures are periodic in nature.
- (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the slit structures are curved.
- (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the slit structures comprise a series of non-parallel slits.
- (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the slit structures comprise a parallel slit arrangement.
- (Previously presented) An electromagnetic radiation absorber as claimed in claim 8
 wherein the wavelength λ of radiation absorbed is determined by

 $\lambda \approx 2nG/N$

where λ is the wavelength in the range λ_{min} to λ_{max} where maximum absorption occurs, n is the refractive index of the dielectric, G is the spacing of the slits and N is an integer greater than or equal to 1.

- 10. (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the slit structure comprises two orthogonal sets of parallel slits.
- 11. (Previously presented) An electromagnetic radiation absorber as claimed in any of claim 2 wherein the slit structures comprise three sets of parallel slits at 60 degree azimuthal separation.
- 12. (Currently amended) An electromagnetic radiation absorber as claimed in any of claim 2 wherein the slit width is less than 400 microns
- 13. (Previously presented) An electromagnetic radiation absorber as claimed in claim 12 wherein the slit width is less than 50 microns.
- 14. (Previously presented) An electromagnetic radiation absorber as claimed claim 2 wherein the dielectric comprises a material having an actively variable refractive index.
- 15. (Previously presented) An adhesive tape comprising an electromagnetic radiation absorber according to claim 2.

16-17 (Cancelled)

18. (Previously presented) A heating element for use in a microwave oven comprising an electromagnetic absorber as claimed in claim 2.

19. (Cancelled)

 (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the thickness of the absorber is less than \(\lambda_{\text{min}}\)/100.

21. (Cancelled)

- 22. (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the absorber is backed with an adhesive material.
- 23. (Previously presented) An electromagnetic radiation absorber as claimed in claim 2 wherein the dielectric layer is sandwiched between the conductor layer and a second conductor layer.

24-25 (Cancelled)

- 26. (Previously presented) An electromagnetic radiation absorber for absorbing radiation in the wavelength range λ_{min} to λ_{max} comprising a conductor layer in contact with a dielectric layer wherein the conductor layer includes a plurality of slits in a grating arrangement each slit having at least one dimension that is less than λ_{min} , wherein the thickness of the absorber is less than $\lambda_{min}/100$.
- 27. (Previously presented) An electromagnetic radiation absorber according to Claim 26, wherein the absorber is flexible.
- 28. (Previously presented) An electromagnetic radiation absorber according to Claim 26, wherein the plurality of slits are arranged in a bigrating.
- 29. (Previously presented) An electromagnetic radiation absorber according to Claim 26, wherein the dielectric comprises a material having an actively variable refractive index.

30. (Previously presented) An electromagnetic radiation absorber according to Claim 26, comprising a further conductor layer arranged such that the dielectric layer is sandwiched between the conductor layer and the further conductor layer.